Gtk

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Gtk

GTK, or the GIMP Toolkit, is a multi-platform toolkit for creating graphical user interfaces.

Links

Gtk home page

Working with Gtk+

MSYS2 / MINGW-64

- Install GTK3 and its dependencies. Open MSYS2 shell and run:
 pacman -S mingw-w64-x86_64-gtk3
- (recommended): Install GTK core applications

To install **Glade**:

pacman -S mingw-w64-x86_64-glade

• **Devhelp** is a help browser. It lets you easily navigate offline in the GTK, glib and gobject API help relative to the version of these libraries installed on your system.

To install **Devhelp**:

pacman -S mingw-w64-x86_64-devhelp

Links

install on windows

Quick example

```
#include <gtk/gtk.h>
static void
print_hello (GtkWidget *widget,
             gpointer
                        data)
 g_print ("Hello World\n");
static void
activate (GtkApplication *app,
          gpointer
                         user_data)
  GtkWidget *window;
 GtkWidget *button;
 GtkWidget *button_box;
 window = gtk_application_window_new (app);
  gtk_window_set_title (GTK_WINDOW (window), "Window");
 gtk_window_set_default_size (GTK_WINDOW (window), 400, 400);
 button_box = gtk_button_box_new (GTK_ORIENTATION_HORIZONTAL);
 gtk_container_add (GTK_CONTAINER (window), button_box);
 button = gtk_button_new_with_label ("Hello World");
  g_signal_connect (button, "clicked", G_CALLBACK (print_hello), NULL);
 g_signal_connect_swapped (button, "clicked", G_CALLBACK (gtk_widget_destroy), window);
 gtk_container_add (GTK_CONTAINER (button_box), button);
 gtk_widget_show_all (window);
}
int
main (int
             argc,
      char **argv)
 GtkApplication *app;
  int status;
```

```
app = gtk_application_new ("org.gtk.example", G_APPLICATION_FLAGS_NONE);
g_signal_connect (app, "activate", G_CALLBACK (activate), NULL);
status = g_application_run (G_APPLICATION (app), argc, argv);
g_object_unref (app);
return status;
}
Compiling and build:
gcc `pkg-config --cflags gtk+-3.0` -o TestGtk TestGtk.c `pkg-config --libs gtk+-3.0`
```

GTKMM

gtkmm is the official C++ interface for the popular GUI library **GTK**+. Highlights include typesafe callbacks, and a comprehensive set of widgets that are easily extensible via inheritance.

Home Page GTKMM

Working in MSYS2 / MINGW-64 environment

https://wiki.gnome.org/Projects/gtkmm/MSWindows

```
• To install the library
pacman -S mingw-w64-x86_64-gtkmm3
```

pacman -S pkg-config

• To install

Quick example

```
#include <gtkmm.h>
int main(int argc, char** argv)
{
        auto app = Gtk::Application::create(argc, argv);
        Gtk::Window window;
        window.set_default_size(600,400);
        return app->run(window);
}
```

Compile :

g++ -std=c++11 TestGtkmm.cc -o TestGtkmm.exe \$(pkg-config gtkmm-3.0 --cflags --libs | sed 's